REMARKS

Claim 1 stands rejected under 35 USC §102(e) as being anticipated by Gottl et al U.S. Patent 6,943,732. Claims 2-3 stand rejected under 35 USC §103(a) as being unpatentable over Gottl et al in view of Le et al, US publication 2005/0001778. Claims 21 and 23-24 stand rejected under 35 USC §103(a) as being unpatentable over Gottl et al in view of Wood et el, U.S. Patent 6,211,840. Claims 26-29 stand rejected under 35 USC §103(a) as being unpatentable over Gottl et al.

ALLOWABLE SUBJECT MATTER

Claims 4-20, 24 and 25 are indicated as allowable if rewritten in independent form to include all of the limitations of the base claim and any intervening claims. Applicant appreciates the Examiner's indication of Allowable Subject Matter.

Referring to independent Claim 1, there is recited a multiband antenna having a first arrangement of dipole elements adapted to provide a first beam in a first band, and a second arrangement of dipole elements adapted to provide a second beam in a second band. Further, the dipole elements are further configured to simultaneously provide the first beam and the second beam each having a 90° azimuth beam width.

Turning now to the '732 patent to Gottl, Gottl fails to teach or suggest a multiband antenna providing two beams. Rather, Gottl teaches an antenna having a plurality of radiator groups 9, 109a, 109b that collectively generate a single beam in a single band. Referring to Gottl Figure 2 and column 5 lines 59 - column 6 line 39, the radiator groups 9 and 109a provide a single beam having a lobe width. The lobe width can be narrowed to 45°, but may also have a desired range of 60° or 65°. The radiators may be offset to determine the lobe width of this single beam. Referring to column 9, lines 16-25, there is disclosed that the radiators or radiator groups can achieve a lobe width of, for example, preferably 45°, 50°, 55°, 60°, or also 65° or 70° or any intermediate values. It is further indicated that by not providing one or more columns of the radiators that the conventional lobe widths for these columns can produce a single beam

having a beamwidth up to 85°. Again, this is a single beam antenna. The beam may have a frequency band such as that discussed in the Background in the Invention in Column 1, lines 29 – 34.

The present claimed invention achieves technical advantages by providing a multiband antenna providing two beams, and more importantly, each of the beams having 90° azimuth beamwidth. As discussed in Applicant's previous responses, achieving a 90° azimuth beamwidth for each beam of a multiband antenna has not been achieved prior to the present invention. As previously discussed, it is well known to one skilled in the art of antenna design that the dipole elements of a dual-polarized multiband antenna have a significant effect on the characteristics of the radiation beams generated by the dipole elements. For instance, cross-coupling and isolation problems have to be addressed in multiband antennas, which problems have previously prevented antenna designers from achieving much better than about a 65° azimuth beamwidth for each beam in a multiband antenna. The present claimed invention has solved the interacting complexities of multiband antennas and achieved a 90° beamwidth for each band of a multiband antenna.

Applicant respectfully requests the Examiner to withdraw the previous rejection, and accordingly issue a notice of allowance to this effect.

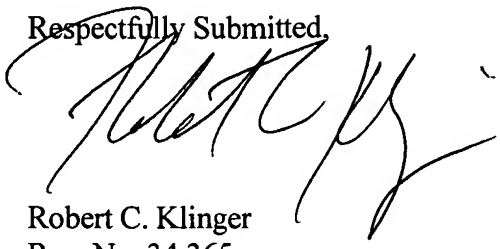
With regards to Claim 2 and 3, this application a continuation-in-part application which claims priority of subject matter disclosed prior to the filing date of the commonly assigned Le publication. Accordingly, withdrawal of this rejection is also respectfully requested.

Applicant submits that all pending claims are now in condition of allowance, and a notice to this effect is respectfully requested.

If the Examiner has any further issues, the Examiner is encouraged to contact the undersigned to resolve these matters by phone where possible.

A Three Month Extension of Time is included herewith along with the requisite fee. No additional fees are believed due, however, should any other fees be due the Examiner is authorized to debit the deposit account 10-0096.

Respectfully Submitted,



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